

METHOD AND APPARATUS FOR TRANSMITTING AND DECODING PRE-PROGRAMMED MESSAGES

Abstract of the Disclosure

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Each of a plurality of wireless communication units (102) is pre-programmed (402) with a plurality of orthogonal codes corresponding to a plurality of canned messages, the plurality of orthogonal codes chosen such that when a group of different canned messages are received simultaneously by a wireless processing
10 device (104), thereby producing an interference symbol pattern, the interference symbol pattern provides a non-zero probability of correctly decoding at least some of the group. A portion of the plurality of wireless communication units then detects (404) a triggering event. Each of the portion selects (406) one of the plurality of canned messages as a selected message to be transmitted in response to the
15 triggering event, and transmits (408) one of the plurality of orthogonal codes corresponding to the selected message during a randomly-selected slotted-aloha time slot.

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